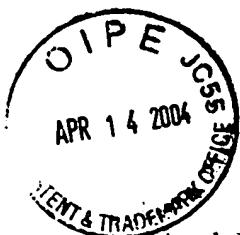


04-16-04



EXPRESS MAIL LABEL NO.: ER 814896125 US

Appl. No. : 10/631,373
Applicant : Peter SOLIZ *et al.*
Filed : July 31, 2003
Title : A DIGITAL STEREO IMAGE ANALYZER FOR AUTOMATED ANALYSIS OF HUMAN RETINOPATHY
Art Unit :
Examiner :
Docket No. : 2809-006

Commissioner For Patents
P.O. Box 1450
Alexandria VA 22313-1450

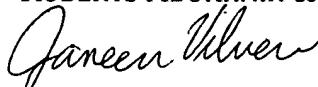
Dear Sir:

Enclosed please find the following:

1. Information Disclosure Statement;
2. Form PTO/SB/08A (1 sheet);
3. Form PTO/ SB/08B (5 sheets); and
4. Cited References (29 enclosures).

The Commissioner is hereby authorized to charge any fee deficiency, or credit any overpayment, to Deposit Account No. 18-1579. The Commissioner is also authorized to charge Deposit Account 18-1579 for any future fees connected in any way to this application.

Respectfully submitted,
ROBERTS ABOKHAIR & MARDULA, LLC



Janeen Vilven
Registration No. 47,156
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**INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 CFR 1.97**

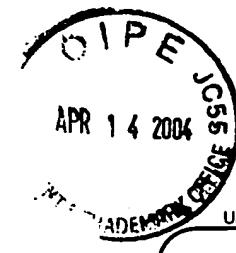
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Dear Sir:

In accordance with 37 CFR §1.56, Applicant hereby submits the following Information Disclosure Statement. The form PTO/SB/08 submitted, lists references which Applicants thinks may be relevant. These documents are not necessarily analogous art. It is respectfully requested that these documents be considered by the Examiner, and that the Examiner indicate consideration of the cited references by returning copies of the attached form PTO/SB/08 with initials or other appropriate marks affixed. Copies of all references are enclosed.

Respectfully submitted,
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Janeen Vilven
Registration No. 47,156
Roberts Abokhair & Mardula, LLC
11800 Sunrise Valley Drive, Suite 1000
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APR 14 2004

PTO/SB/08A (08-03)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/631,373
Filing Date	07/31/2003
First Named Inventor	Peter SOLIZ
Art Unit	3737
Examiner Name	
Attorney Docket Number	2809-006

U. S. PATENT DOCUMENTS

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				Art Unit	3737
				Examiner Name	
Sheet	1	of	5	Attorney Docket Number	2809-006

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1	J. TIELSCH, J. KATZ AND H. QUIGLEY, "Intraobserver and Interobserver Agreement in Measurement of Optic Disc Characteristics,"	
		Ophtalmology, 1988, pp. 350, vol. 95.	
	2	PAUL LICHTER, MD, "Variability of Expert Observers in Evaluating the Optic Disc," Trans. Am. Ophthalmol. Soc., 1976, pp. 532, vol. 74.	
	3	L. ZANGWILL, et al, "Agreement Between Clinicians and a Confocal Scanning Laser Ophthalmoscope in Estimating Cup/ Disk Ratio,	
		Am. J. Ophtalmol., 1995, pp. 415-421, vol. 74.	
	4	F. MIDELBERG, et al., "Ability of the Heidelberg Retina Tomograph to Detect Early Glaucomatous Visual Field Loss," J. Glaucoma, 1995, pp. 242-247, vol. 4.	
	5	D. HUANG, et al., "Optical Coherence Tomography," (Science), 1991, pp. 1178, vol. 254.	
	6	M. HEE, et al., "Optical Coherence Tomography of the Human Retina," (Arch. Ophthalmol.), 1995, pp. 325-332, vol. 113.	
	7	L. DANDONA, H. QUIGLEY and H. JAMPEL, "Variability of Depth Measurements of the Optic Nerve Head and Peripillary Retina With Computerized Image	
		Analysis,"Arch. Ophthalmol., 1989, pp. 1786-1792, vol. 107.	

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				First Named Inventor	Peter SOLIZ
				Art Unit	3737
				Examiner Name	
Sheet	2	of	5	Attorney Docket Number	2809-006

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	8	R. VARMA and G. SPAETH, "The PAR is 2000: A New System for Retinal Digital Image Analysis," Ophthalmic Surgery, 1988, pp. 183-192,	
		vol. 19.	
	9	S. WHITESIDE, et al., "Fundus Image Processing for Early Detection of Glaucoma," SPIE Proc., 1986, pp. 123-128, vol. 697.	
	10	S. WHITESIDE, S. MITRA and T.F. KRILE, "Differential Retinal Structural Damage Exhibited by Image Enhancement of Fundus Photographs, Low Vision:	
		Principles and Applications," Ed. G.C. Woo, Springer-Verlag, 1986, pp. 125.	
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		Assessment of the Visual System, January, 1987, Lake Tahoe, NV.	
	13	S. MITRA, B.S. NUTTER and T.F. KRIEL, "Automated Method for Fundus Image Registration and Analysis," Applied Optics, 1988, pp. 1107-1112, vol. 27.	
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		Application Number	10/631,373
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		First Named Inventor	Peter SOLIZ
		Art Unit	3737
		Examiner Name	
Sheet 3	of 5	Attorney Docket Number	2809-006

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	15	M. RAMIREZ, et al., "3-Digital Surface Recovery of the Optic Nerve Head From Stereo Fundus Images, " Proc. Fifth Annual IEEE Symposium on	
		Computer-Based Medical Systems, Durham North Carolina, June 14-17, 1992, pp. 284-291.	
	16	M. RAMIREZ, S. MITRA and J. MORALES, "Visualization of the Three-Dimensional Topography of the Optic Nerve Head Through a	
		Passive Stereo Vision Model," Journal of Electronic Imaging, 1999, pp. 92-97, vol. 8, no. 1.	
	17	L.G. BROWN, "A Survey of Image Registration Techniques," ACM Computing Surveys, Dec., 1992, pp. 325-376. vol. 24, no. 4.	
	18	E. CORONA, et al., "Digital Stereo Optic Disc Image Analyzer for Monitoring Progression of Glaucoma," SPIE Proc. on Image Processing,	
		February 23-25, 2002.	
	19	JOSEPH CAPRIOLI, MD, "Recognizing Structural Damage to the Optic Nerve Head and Nerve Fiber Layer in Glaucoma," American Journal of	
		Ophthalmology, October, 1997, pp. 516-520, vol. 124., no. 4.	
	20	W. SPONSEL, et al., " A Clinically Practical Reproducible and Rapid Means for Obtaining and Comparing Glaucomatous Stereo Disc Images, " IOVSs,	

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		1998, pp. 117, vol. 39.		
	21	G. SHUTTLEWORTH, C. KHONG and J. DIAMOND, " A New Digital Optic Stereo Camera: Intra-Observer and Inter-Observer Repeatability of Optic Disc		
		Measurements," Br. J. Ophthalmol., 2000, pp. 403-407, vol. 84.		
	22	M. GREANEY, D. GARWAY-HEATH and D. HOFFMAN, " Comparison of Imaging Methods to Distinguish Normal Eyes from Those With Early		
		Glaucoma," European Glaucoma Society Meeting and Association for Research in Vision and Ophthalmology Annual Meeting, London England and		
		Fort Lauderdale, FL. 2000.		
	23	L. PECORA, et al., " Intra and Inter-Observer Variability of Optic Nerve Head by Using the Discam Acquisition System," IOVSs, 2001, pp. 2985, vol. 41.		
	24	M. LIM, et al., "Digital Stereoscopic Photography With Chevron Drawings Versus Standard Film Photography: Estimate of Cup to Disc Measurements,"		
		IOVSs, 2001, pp. 697, vol. 41.		
	25	J. Nicholl, et al., "Comparison of Heidelberg Retina Tomograph and Marcher Discam Analysis Results," IOVSs, 2001, pp. 101, vol. 41.		

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	26	J. MENSAH, et al., " The Chevron Ratio: A New Method of Analyzing the Optic Disc From Stereo Color Photographs Using Vascular Landmarks," 1997		
		pp. 3870, vol. 38.		
	27	P. SOLIZ, et al., " Considerations of Stereo Cues, Resolution and Contrast in a Computer-based Grading System for Age-Related Macular		
		Degeneration," Associatin for Research in Vision and Ophthalmology (ARVO), Ft., Lauderdale, FL., May 2000.		
	28	M. WILSON, et al., "Optimizing Retinal Image Digitization for Improved Digital Processing and Visualization," 14th IEEE Symposium on Computer-Based		
		Medical Systems (CBMS), July, 2001, Rockville Pike, Bethesda, Maryland, pp 26-27.		
	29	PHILIP W. SMITH and N. NANDHAKUMAR, "An Improved Power Cepstrum Based Stereo Correspondence Method for Textured Scenes, "		
		IEEE Trans. on Pattern Analysis and Machine Intelligence, March, 1996, pp. 338-348, vol. 18, no. 3.		

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